



**FAST TRAVELS
LIMITED**

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FAST TRAVELS

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Introduction

FAST Travels is a unified platform which supports seamless booking and reservations of Buses, Flights and Trains. By integrating all types of bookings along with cargo bookings, presented in a minimalistic UI, FAST Travels aims to make ticket reservation process, a lot easier for user.

People Behind The Product

- Muhammad Rafay
- Arham Kahlid
- Ali bin Salmaan

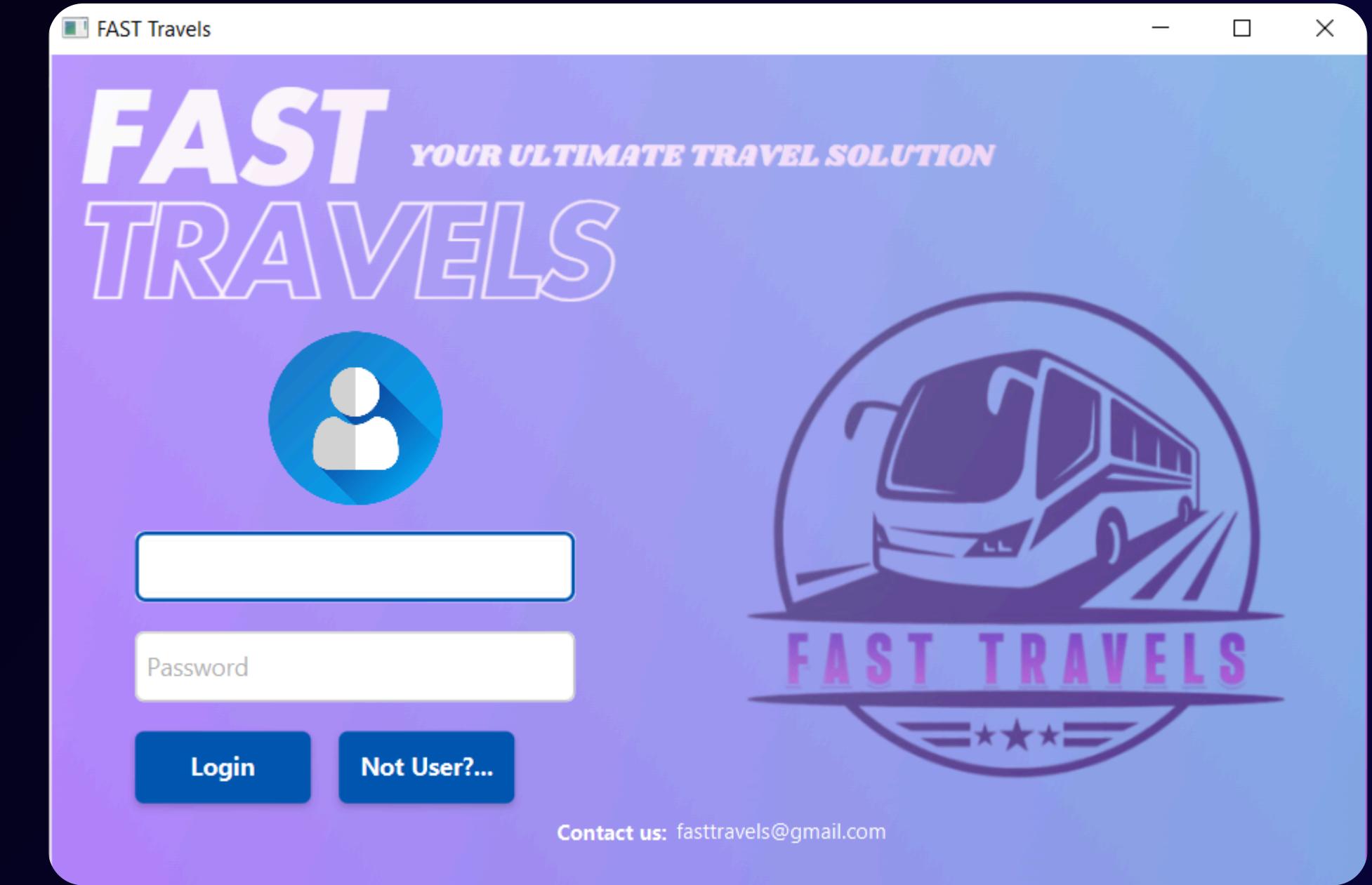
Prominent Features

- Addresses the strenuous nature of travel booking by unifying buses, trains, and airplanes into a single platform.
- Provides:
 - a) Real-time ticket availability.
 - b) Secure transactions.
 - c) Efficient travel management.
- Loyalty Program: Introduces a mileage points system to reward frequent travelers, encouraging customer retention and enhancing user experience.
- User-Friendly Interface: Simplifies booking and travel management for a diverse audience, including students, professionals, and frequent travelers.

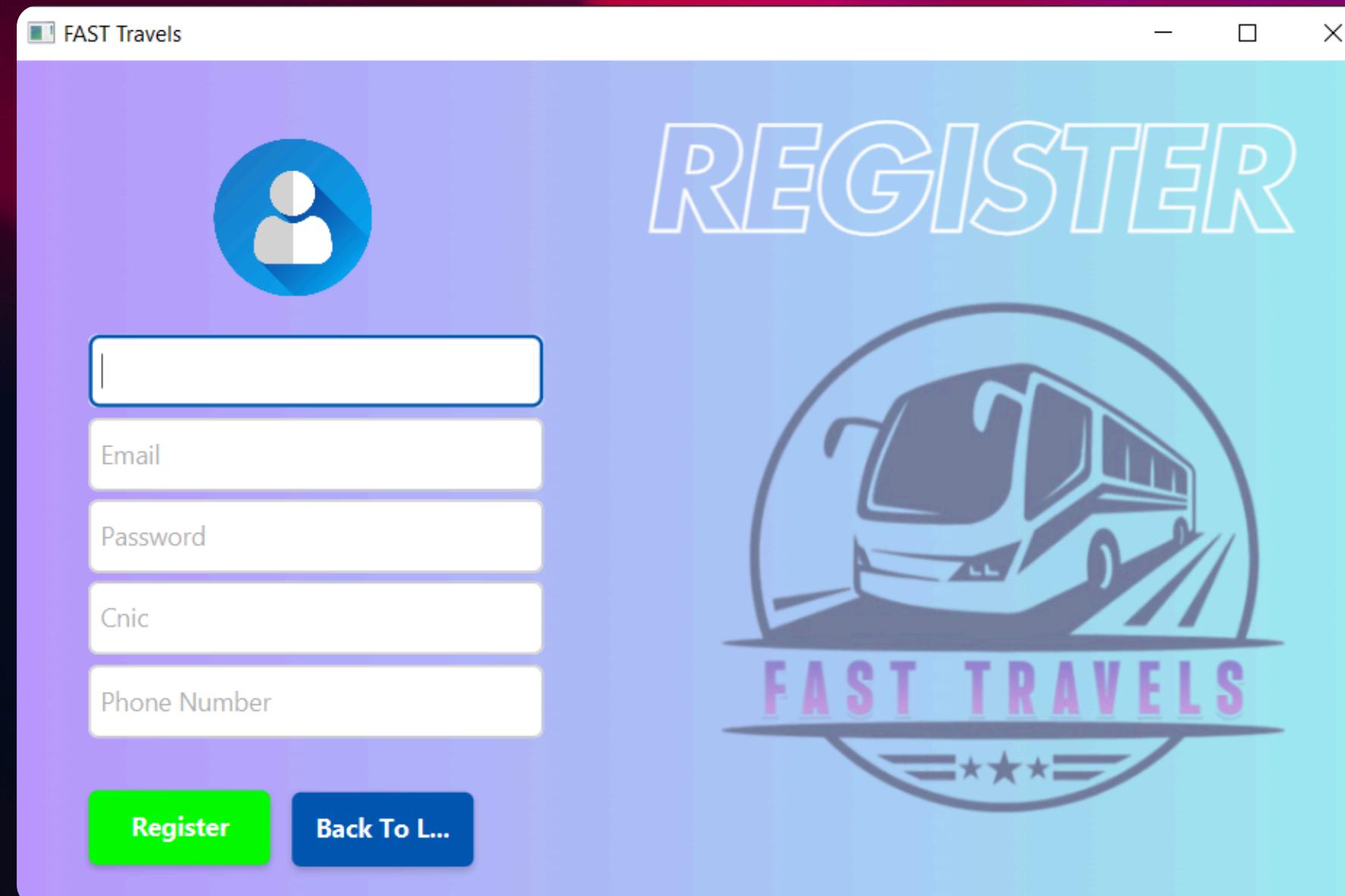
Loyalty Points System

Application also provides users with a Loyalty points system, where frequent travellers can earn points, and redeem them for amounts in wallets.

User Interface Design



Login Screen

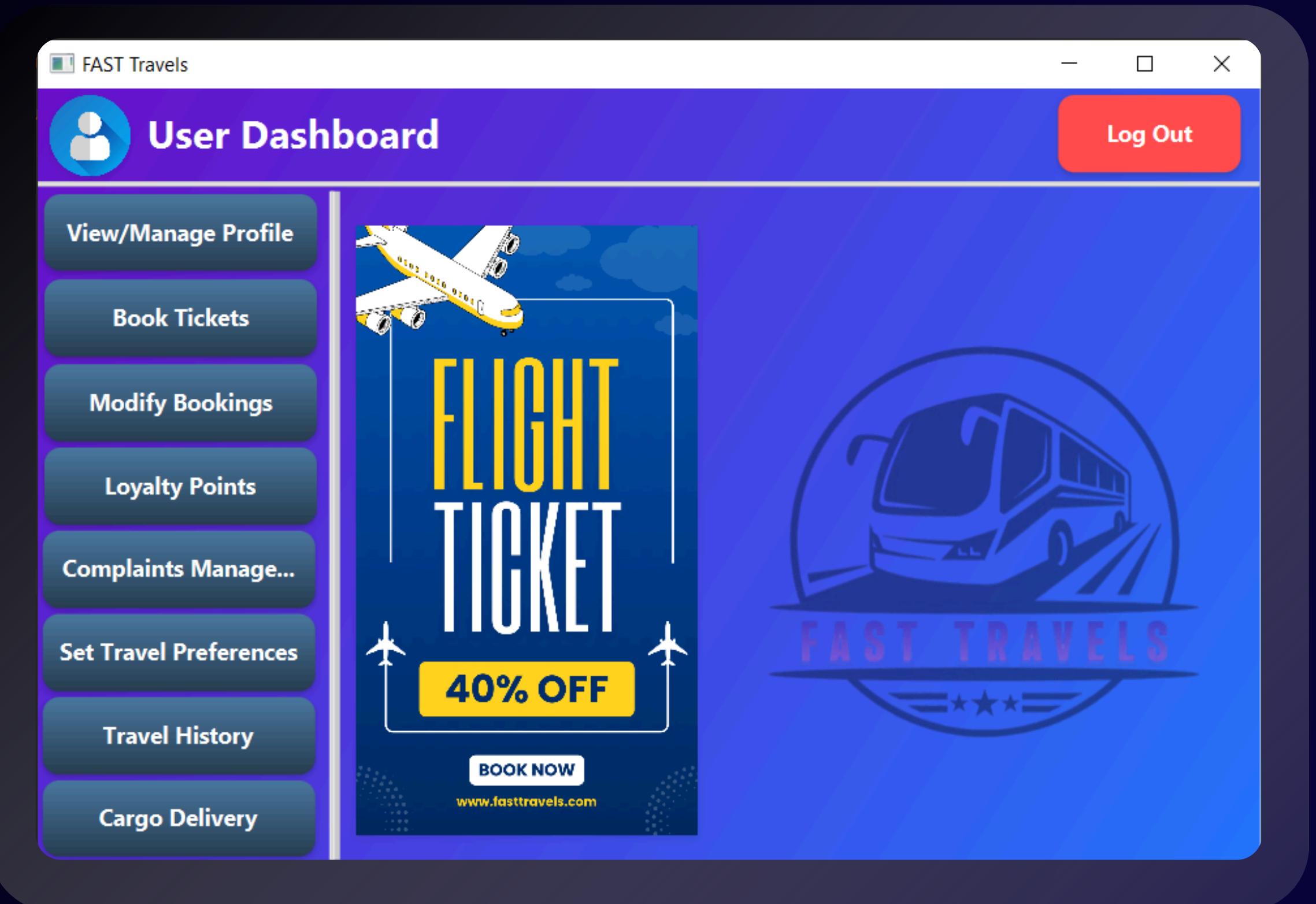


Registration

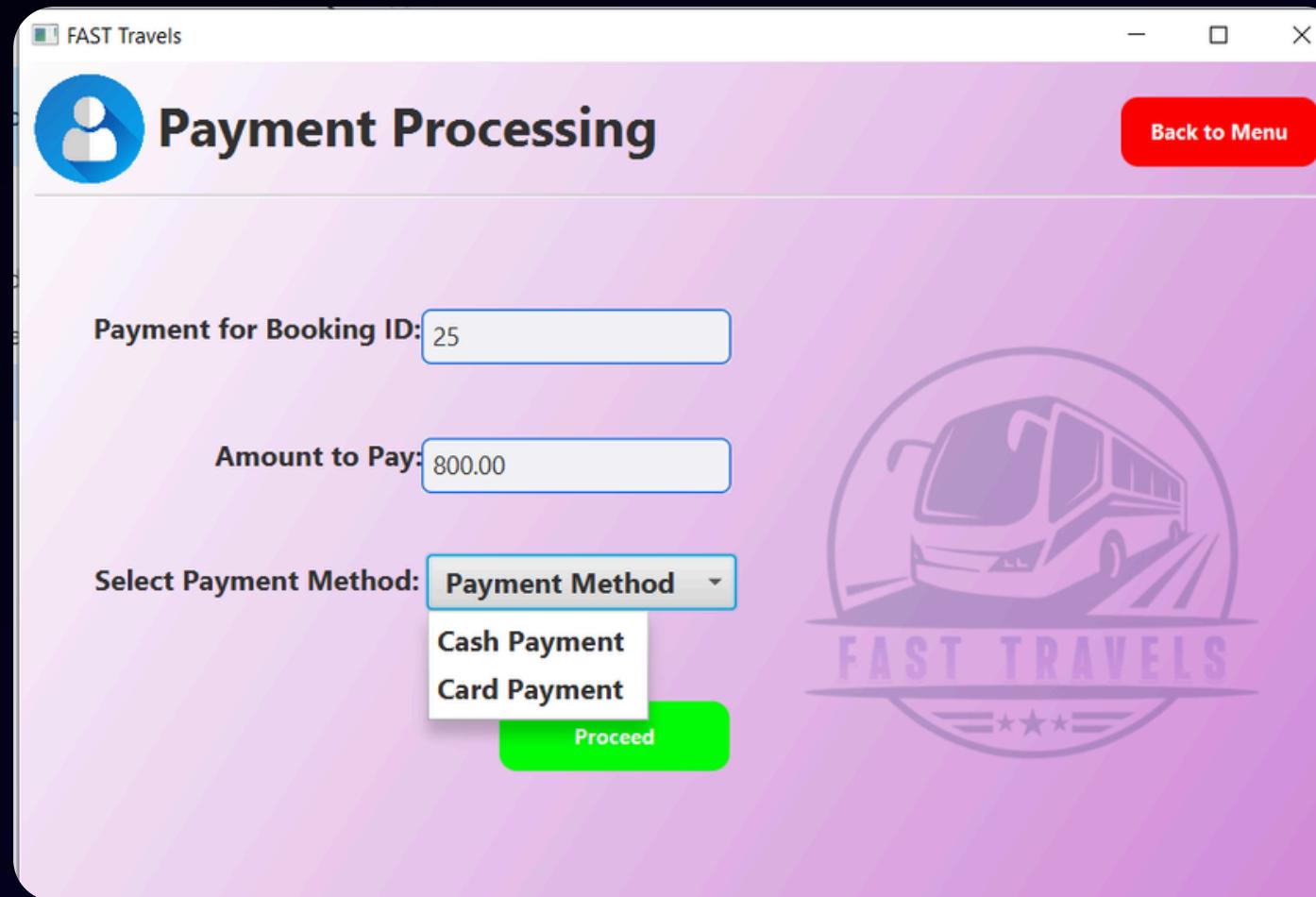
User can navigate to and from the login and registration screen. Register button perform database operation of inserting new user if valid credentials are added

Main User Dashboard

Side bar provides easy access to the program features. Providing ease of access even to non-technical users



Book Tickets and Payments



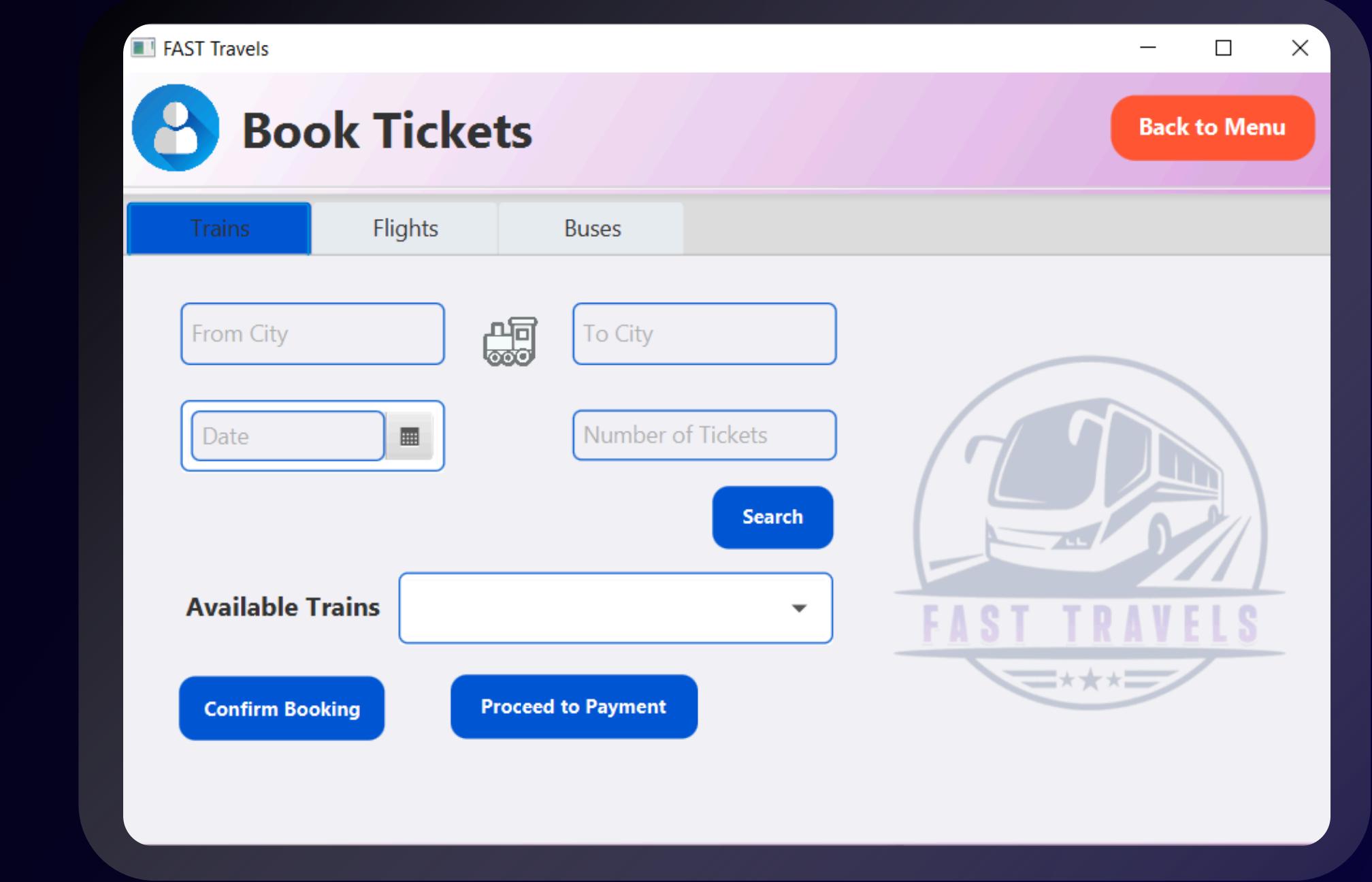
Payment Processing

Payment for Booking ID:

Amount to Pay:

Select Payment Method:

Cash Payment
Card Payment



Book Tickets

From City

To City 

Date

Number of Tickets

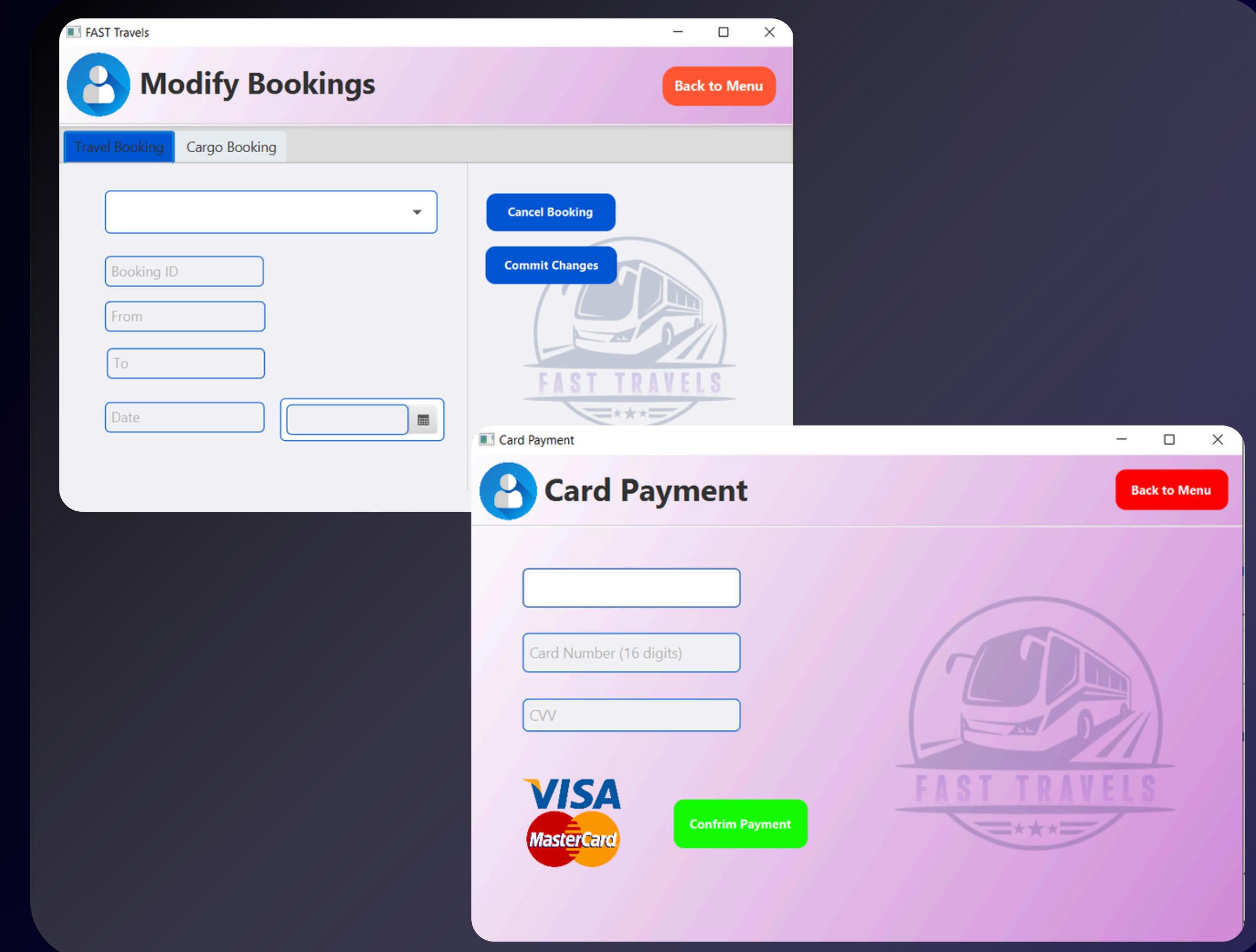
Search

Available Trains



Book Tickets Proceeds to payment processing screen upon successful booking. The user is also given an alert screen which provides info like bookingID and fare

Modify booking and Card Payment Processing



The image shows two windows of a software application for travel bookings and payments.

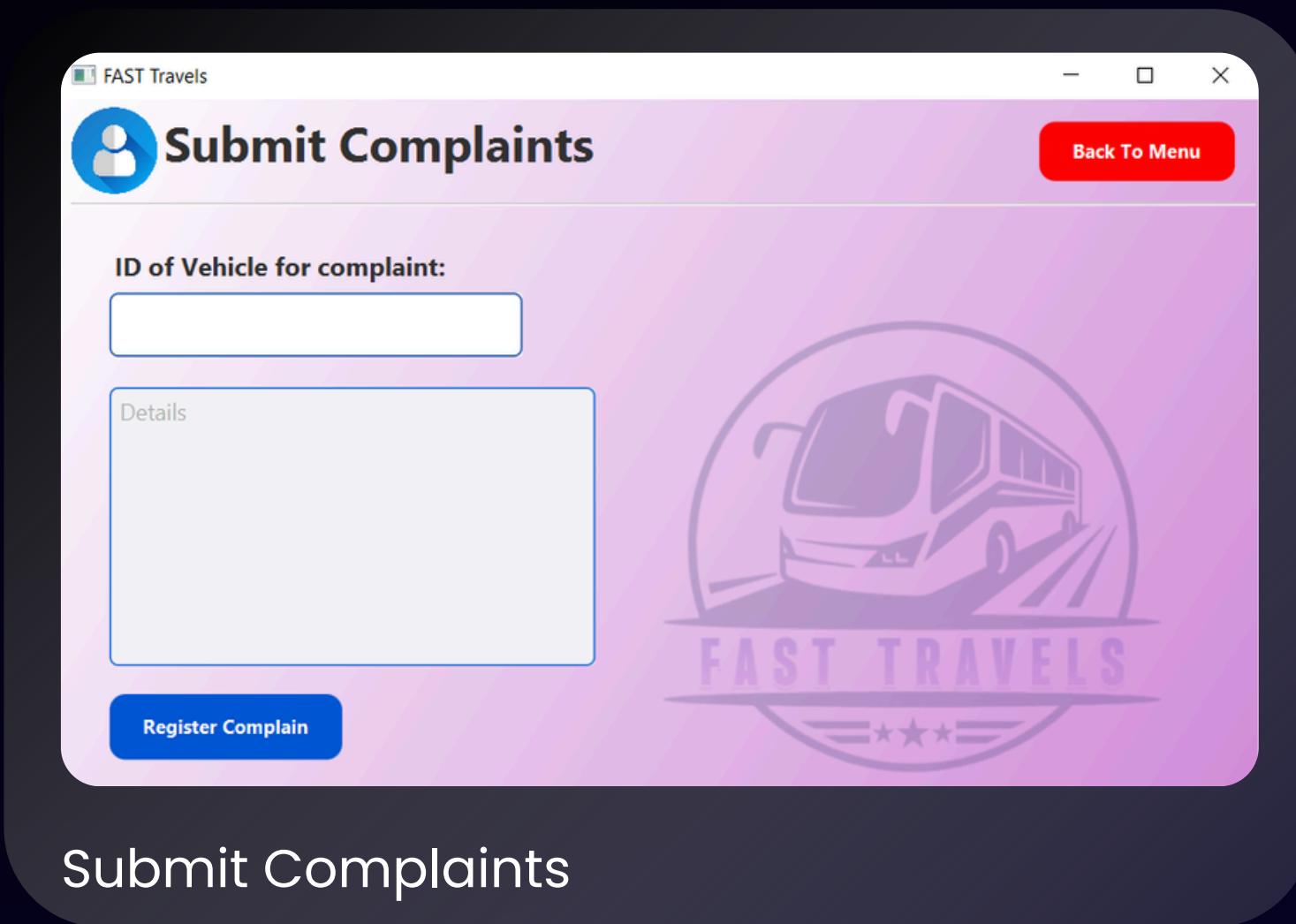
Modify Bookings Window:

- Header:** FAST Travels, Modify Bookings, Back to Menu.
- Buttons:** Travel Booking (selected), Cargo Booking.
- Form Fields:** Booking ID, From, To, Date, Time.
- Actions:** Cancel Booking, Commit Changes.
- Logo:** FAST TRAVELS with a bus icon.

Card Payment Window:

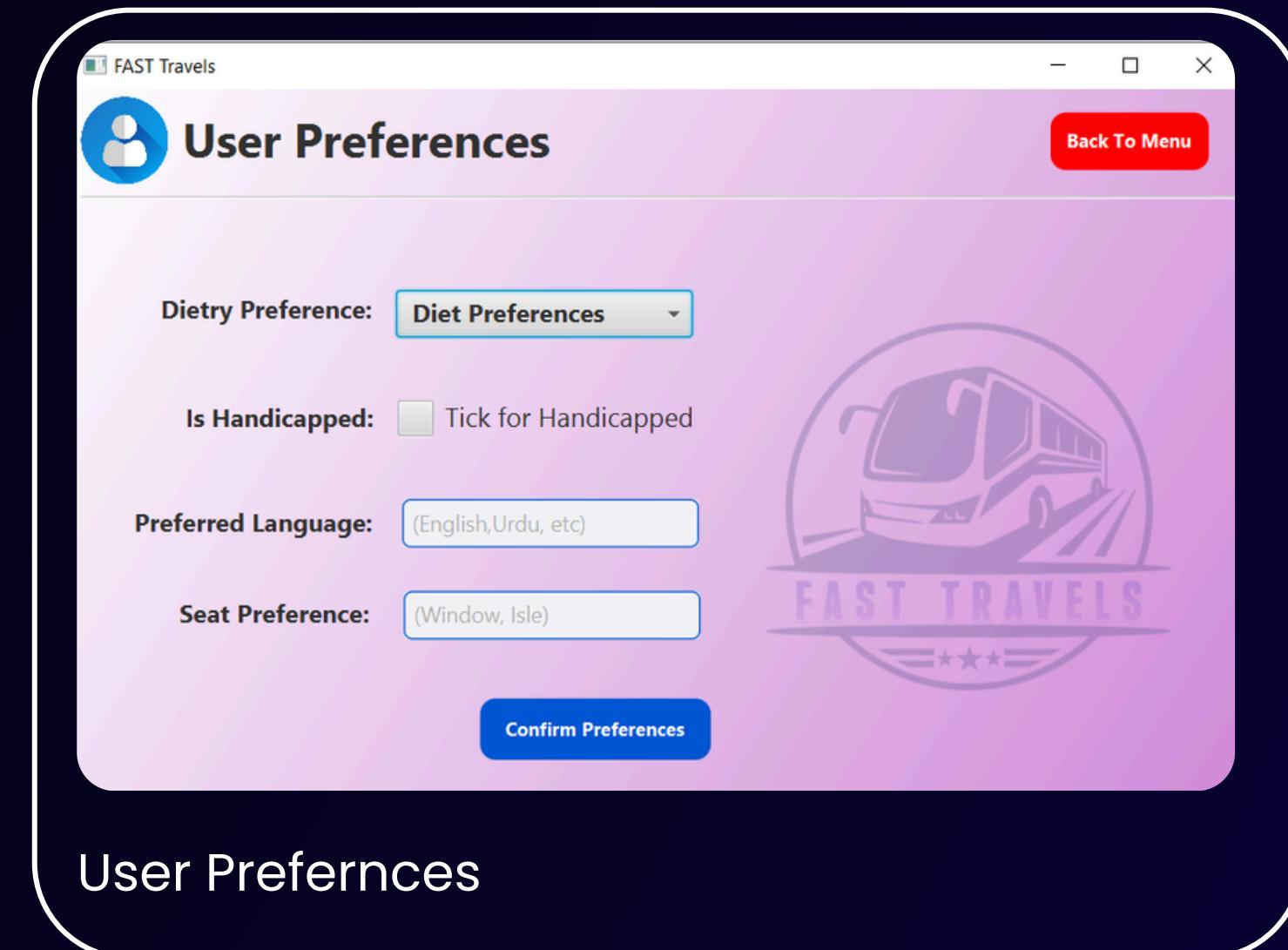
- Header:** Card Payment, Back to Menu.
- Form Fields:** Card Number (16 digits), CVV.
- Logos:** VISA, MasterCard.
- Action:** Confirm Payment.
- Background:** FAST TRAVELS logo with a bus icon.

Additional Features



The "Submit Complaints" interface features a large input field for entering the vehicle ID, a smaller "Details" text area, and a "Register Complain" button.

Submit Complaints



The "User Preferences" interface includes fields for Dietary Preference (with a dropdown menu), Is Handicapped (with a checkbox), Preferred Language (with a dropdown menu), and Seat Preference (with a dropdown menu). A "Confirm Preferences" button is at the bottom right, and a "Back To Menu" button is in the top right corner.

User Preferences

Submit Complaints allows feedback from users which can be viewed by admin.
User preferences allow user to setup preferences for future bookings so that booking company can be notified

FAST TRAVELS



FAST Travels

View/Modify Profile

Back to Menu

| | |
|---------------|-----------------|
| User ID: | 7 |
| Username: | rafay |
| Email: | rafay@email.com |
| Cnic: | 4130476734341 |
| Phone Number: | 03331284094 |

[View Saved Info](#) [Commit Changes](#)

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FAST Travels

Cargo Booking

Back to Menu

To City

Cargo Weight

Dimensions:

Height in inches

Width in Inches

Search

Available Buses for Cargo:

Confirm Booking

Proceed To Payment



FAST TRAVELS

One of the standout features is the cargo booking option which is unique from all the existing booking services in the market



Admin Controls

FAST Travels Admin Dashboard

This dashboard provides an overview of the system's key management areas:

- View Manage Profile**: Allows users to view and manage their personal profile information.
- Manage Complaints**: A central hub for handling customer complaints and feedback.
- Waitlist Management**: Manages the list of passengers waiting for travel.
- Manage Routes**: Handles the configuration and maintenance of travel routes.
- Manage Vehicles**: Manages the fleet of vehicles used for travel.

The dashboard also features a prominent **Logout** button in the top right corner.

Manage Routes

This screen allows administrators to add new routes or delete existing ones. It includes fields for Route Start Point, Route End Point, and Route Distance (in km), along with a **Save Route** button. The interface includes a "Back To Menu" button in the top right corner and a logo for FAST TRAVELS in the bottom right.

Manage Vehicle

This screen allows administrators to add new vehicles or remove existing ones. It includes fields for Route ID for Vehicle, Vehicle type, Seating capacity, Availability Status, and Company Name, along with a **Save Vehicle** button. The interface includes a "Back To Menu" button in the top right corner and a list of current routes in the bottom right:

- Route ID: 1 - Start: Karachi - End: Islamabad - Distance: 1200.0
- Route ID: 2 - Start: Karachi - End: Hyderabad - Distance: 200.0
- Route ID: 3 - Start: Lahore - End: Islamabad - Distance: 300.0
- Route ID: 4 - Start: Lahore - End: Karachi - Distance: 1000.0
- Route ID: 5 - Start: Karachi - End: Lahore - Distance: 1000.0

Design Patterns

- GRASP
- SINGELTON PATTERN
- FACTORY PATTERN

Singleton class used to access UserID for the session and the bookingId for payment processing

Factory Pattern for creation of correct type of booking and vehicle

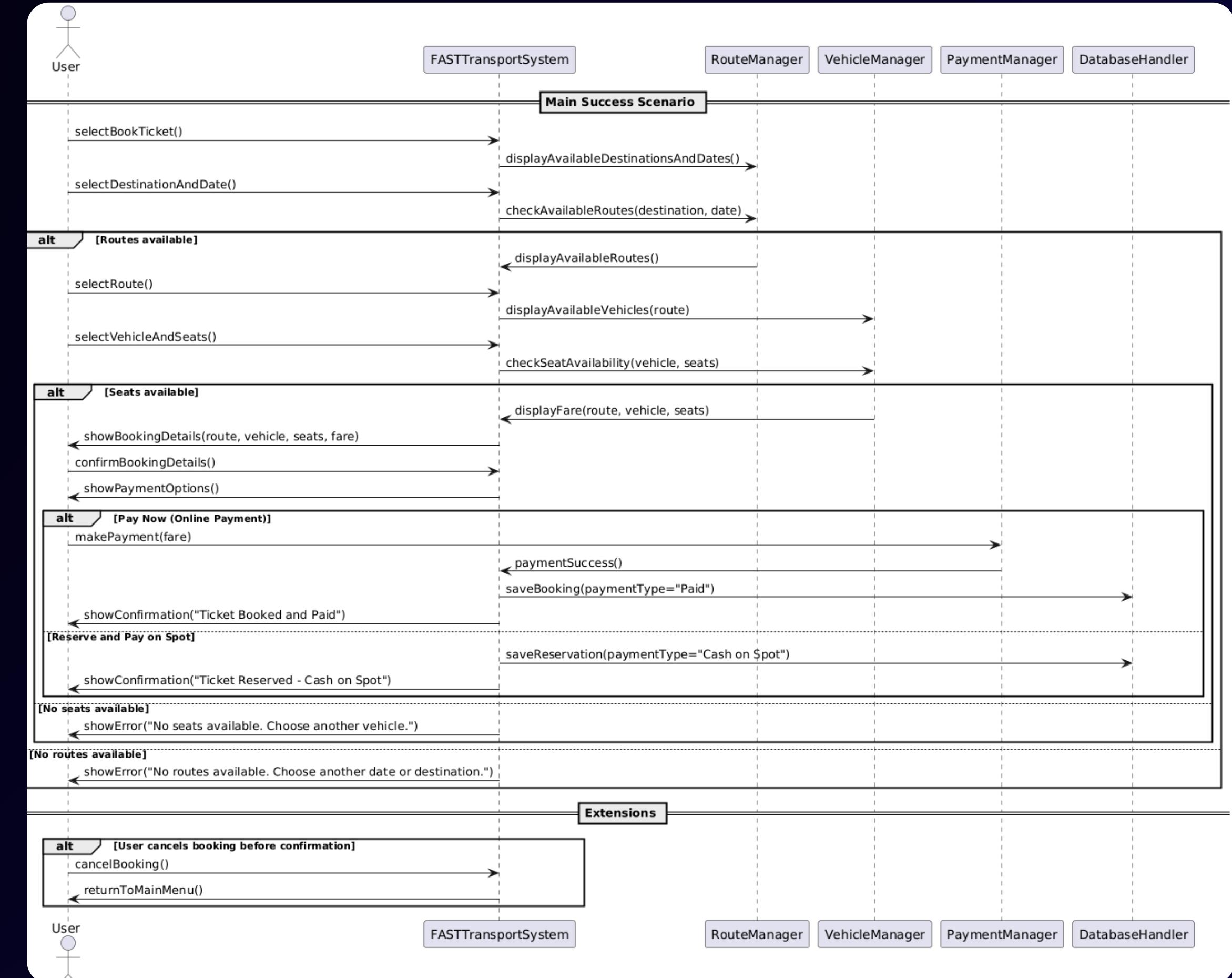
Database Adopter to ensure compatibility for multiple database services



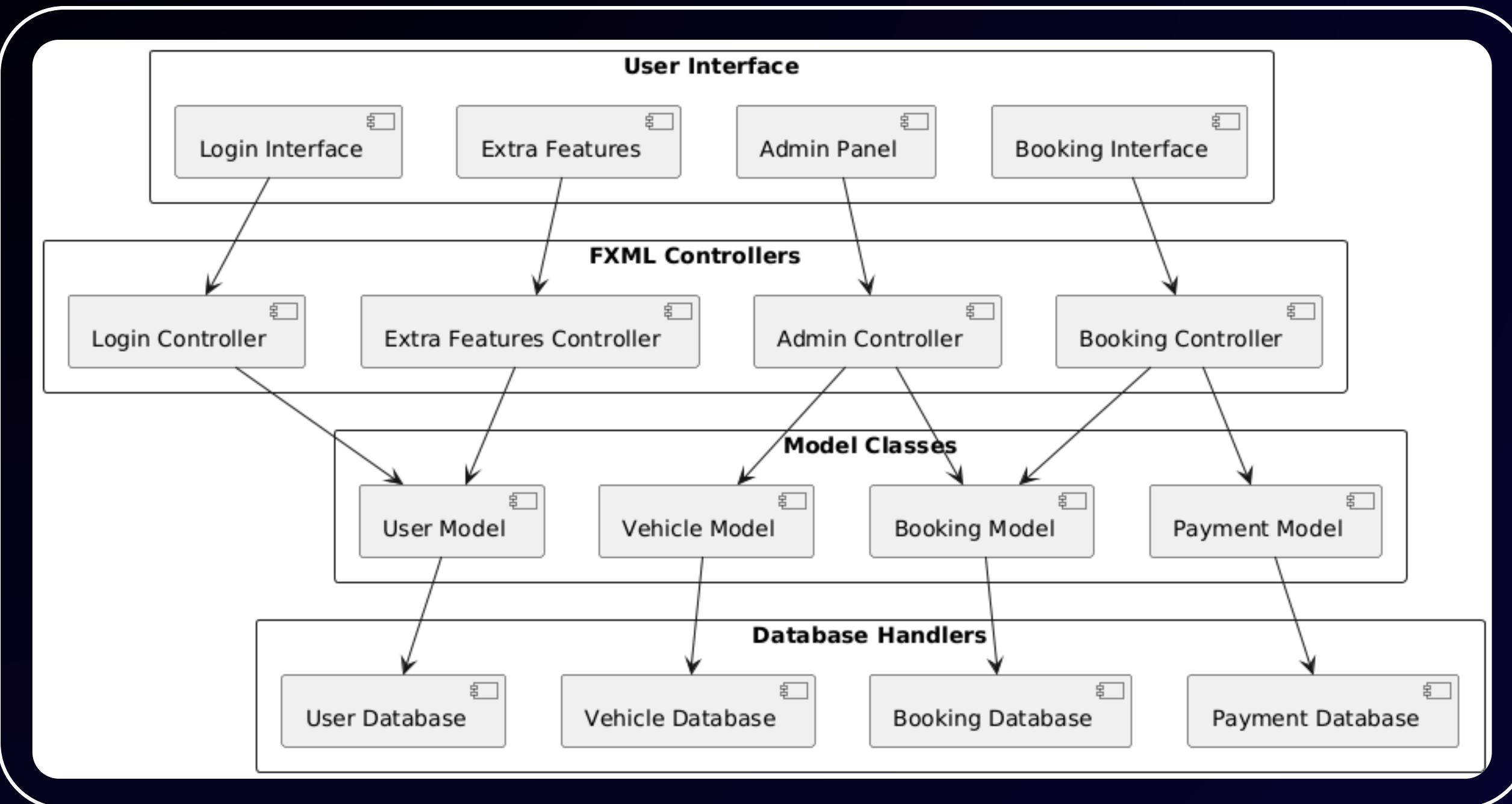
Sequence Diagram of major use case

Use Case: Book Tickets

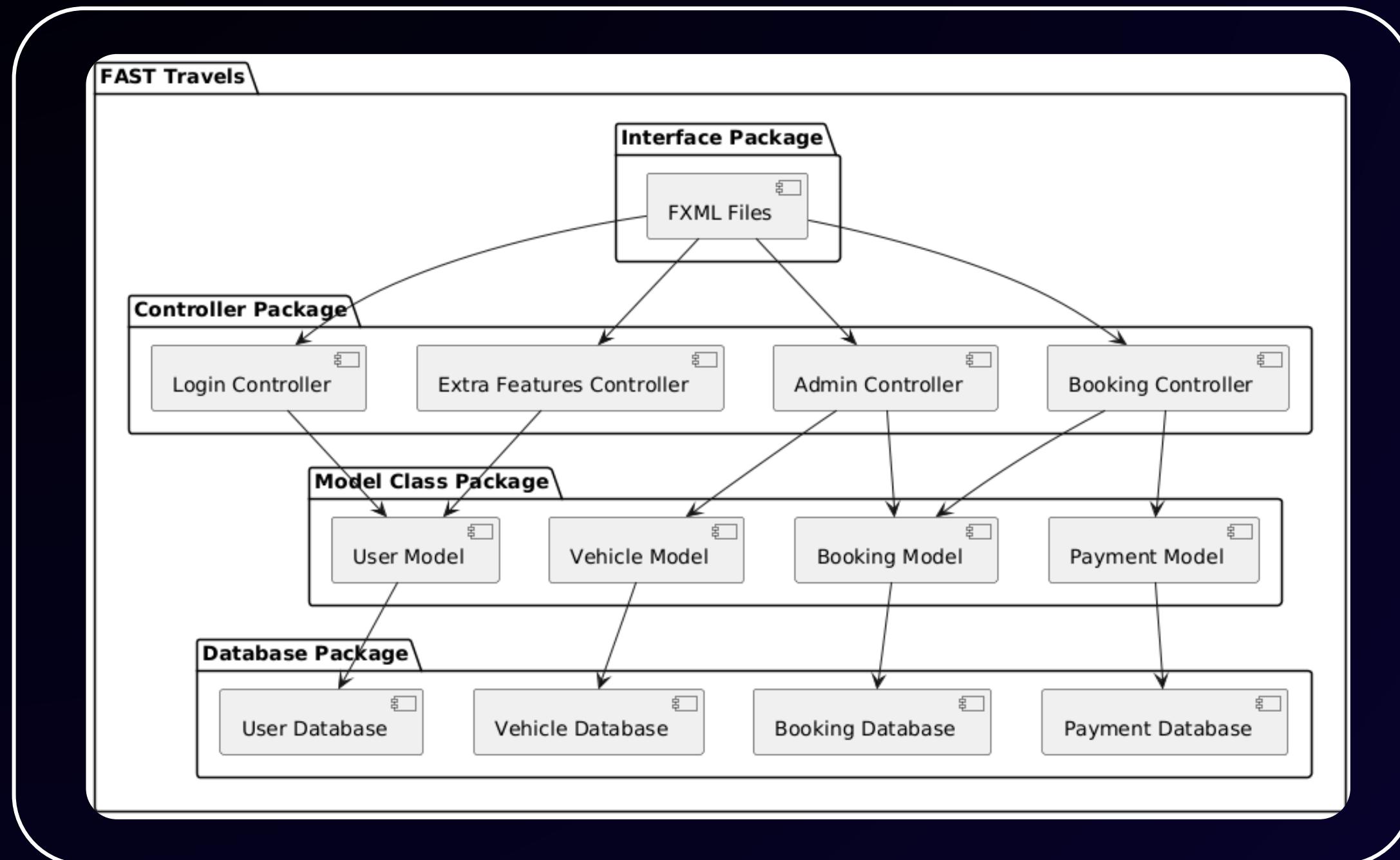
Enables user to login, book tickets for preferred Vehicle type on preferred date and seats. Then proceed to payment options



Basic Component Diagram



Package Diagram



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Thank You